

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 July 2005 (28.07.2005)

PCT

(10) International Publication Number
WO 2005/068865 A1

(51) International Patent Classification⁷: **F16D 21/04**,
27/102, 27/118, F16H 63/30

(21) International Application Number:
PCT/US2005/001381

(22) International Filing Date: 14 January 2005 (14.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/537,243 14 January 2004 (14.01.2004) US

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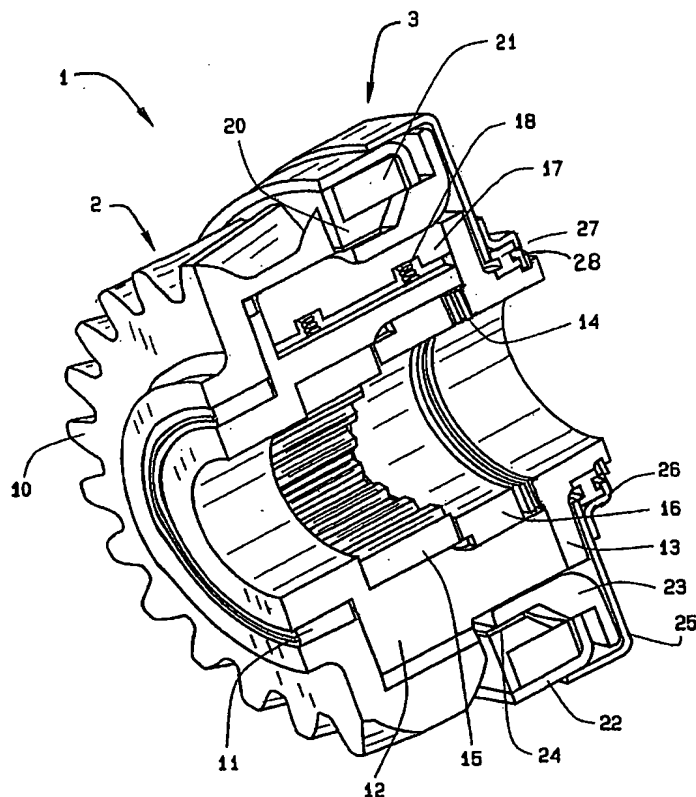
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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
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PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: AN ELECTRO-MECHANICAL MECHANICAL GEAR SELECTOR



(57) Abstract: An electromagnetic gear-clutch assembly (1) is disclosed. The device comprises a gear (10) having grooves (10c) that open inwardly toward the axis and extend axially. A hub (12) is located within the gear (10) where it is capable of rotating within the gear (10). The hub (12) has grooves (12k) that open outwardly away from the axis and extend axially. Keys (17) are located within the grooves (12k) of the hub (12) and are capable of moving radially toward and away from the axis, the arrangement being such that when the keys (17) are permitted to move away from the axis, at least one will enter one of the grooves (10c) in the gear (10) to couple the gear (10) and hub (12) so that they will rotate in unison. The device also comprises an actuator assembly (3) for effecting radial displacement of the keys (17).

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FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

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Published:

— *with international search report*